



18 CROSSBY DRIVE
BEDFORD, MASSACHUSETTS 01730
617-275-2970



SEMS DocID 638175

C-583-12-0-131
December 20, 1990

**Final Screening Site Inspection
Koppers Co. Portland Plant
Portland, Maine**

**TDD No. F1-9001-15
Reference No. \$375ME501\$
CERCLIS No. MED980521744**

INTRODUCTION

The NUS Field Investigation Team (NUS/FIT) was requested by the Region I U.S. Environmental Protection Agency (EPA) Waste Management Division to perform a Screening Site Inspection of Koppers Co. Portland Plant in Portland, Maine. All tasks were conducted in accordance with Technical Directive Document (TDD) No. F1-9001-15 which was issued to NUS/FIT on January 18, 1990. NUS/FIT completed a Preliminary Assessment Review of this property in July 1989. On the basis of information provided in this Preliminary Assessment Review, the Koppers Co. Portland Plant Screening Site Inspection was initiated.

Background information used in the generation of this report was obtained through file searches conducted at the Maine Department of Environmental Protection (ME DEP) and at the EPA. Information was also collected during the onsite reconnaissance conducted by NUS/FIT on May 30, 1990.

This package follows guidelines developed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, commonly referred to as Superfund. However, these documents do not necessarily fulfill the requirements of other EPA regulations such as those under the Resource Conservation and Recovery Act (RCRA) or other federal, state or local regulations. Screening Site Inspections are intended to provide a preliminary screening of sites to facilitate EPA's assignment of site priorities. They are limited efforts and are not intended to supersede more detailed investigations.

SITE DESCRIPTION

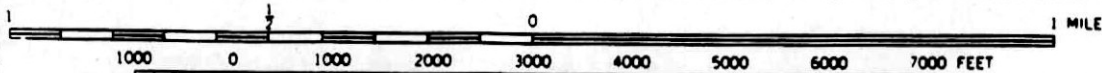
The former Koppers Co. Portland Plant property is located on West Commercial and Beach Streets in Portland, Maine (Figure 1). The property comprises approximately 1.5 acres with one building and is bounded by Clark Street to the northeast, Summer Street to the north, Beach Street to the southeast, West Commercial Street to the south, and buildings to the west. Parking areas are located on the south and east sides. North of the building are the Portland Terminal Company railroad tracks. Currently, the building is occupied by two companies, the Portland Rubber Company and Graybar Electric. Access is unrestricted on the south side; however, a fence is located on the east, west and part of the north sides of the property. On the north side, a break exists in the fence, allowing access to the railroad tracks. This area appears to be used for recreational activities as evidenced by empty alcoholic beverage containers, furniture, and other debris. The area along and between the railroad tracks was wet at the time of the NUS/FIT reconnaissance and supported several species of wetlands plants. The nearest residences are located at the top of a steep hill to the north and to the east. Other businesses are located across Beach Street and adjacent to the property along West Commercial Street (NUS/FIT, 1990; Figure 2).

The following table provides a summary of all identified and potential source area(s) of contamination on the property, containment features, and spatial location.



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' U.S.G.S. QUADRANGLE(S):

PORTLAND WEST, ME., 1956, PHOTOREVISED 1978; PORTLAND EAST, ME., 1956, PHOTOREVISED 1970

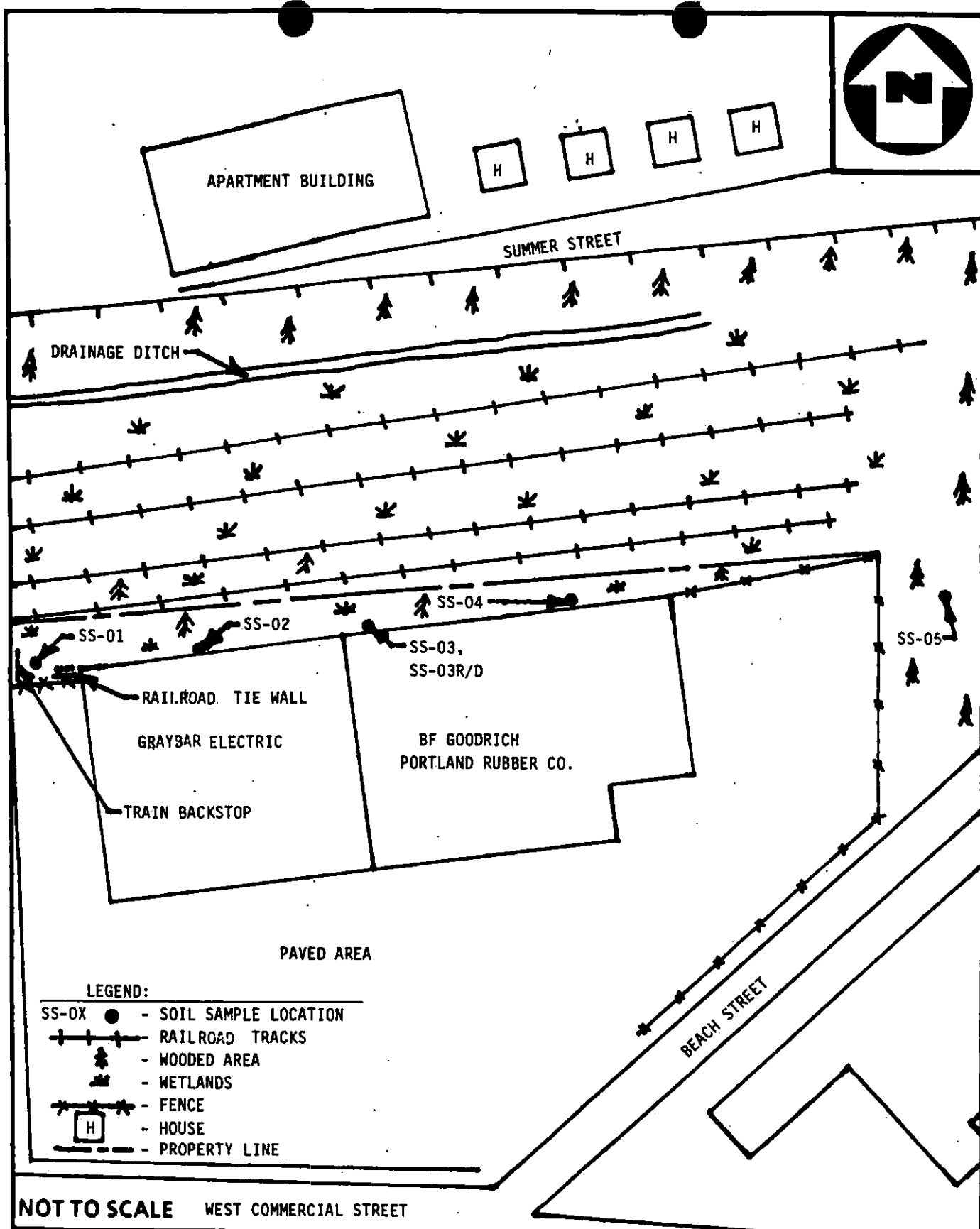


LOCATION MAP

KOPPERS CO. PORTLAND PLANT
PORTLAND, MAINE



FIGURE 1

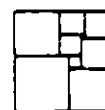


NOT TO SCALE

SITE SKETCH

KOPPERS CO. PORTLAND PLANT

PORTLAND, MAINE



NUS
CORPORATION

FIGURE 2

TABLE 1

SOURCE EVALUATION

<u>SOURCE AREA</u>	<u>CONTAINMENT</u>	<u>SPATIAL LOCATION</u>
Two asphalt storage tanks	Under building	Tanks are no longer onsite, removed in 1973 prior to construction of the building.
Stained soil, reported prior to tank removal	Under building	

(Milikovsky 1989c; NUS/FIT 1990)

The Fore River Transportation Park (MED981889827) and the Portland Gas Works (MED980520928) are CERCLIS sites that are located less than 1 mile west and south, respectively, of the Koppers property. In addition, Brown Company (MED985467778) is located within 1 mile to the northeast of the Koppers property.

SITE ACTIVITY/HISTORY

Between 1923 and 1930, the Koppers property was owned by the Portland Gas and Light Company. The Portland Gas and Light Company conducted coal gasification during this time at their property located at 40 West Commercial Street (across the street from the Koppers property) and may have used the Koppers property for the same purpose (Milikovsky 1989a; NUS/FIT 1988). Typically, coal gasification on the East Coast consisted of reacting coal with steam to yield a gas rich in hydrogen and carbon monoxide. Sometimes petroleum oils were added to the gas. Carbonization of coal (another method) directly produced gas which was distributed to customers. Wastes from this process include: residual tars, ash, slags, and clinkers (NUS/FIT, 1989a).

Koppers purchased the property in 1930 and utilized it for coal road tar storage until 1966. Coal road tar was transported by trains then transferred and stored in two above-ground tanks, which occupied an area of approximately 100 feet by 310 feet. In addition, a pump house was also located on the property. The asphalt was held in the storage tanks until used. The asphalt was then transferred to trucks and used on roads. This primarily occurred in the summertime. From 1966 to 1973, the property, still owned by Koppers, was not utilized (DeLuca, 1983). In 1973, J.B. Brown and Sons, a construction company, purchased the property, removed the storage tanks, and constructed the present building (DeLuca, 1983; Diskin, 1990). J.B. Brown and Sons currently rent this building to two companies, Portland Rubber and Graybar Electric, distributors of rubber and electrical products, respectively (Milikovsky, 1989b; 1989c).

The following table provides a list of all known identified waste types, including quantity or volume or area, and years of use.

TABLE 2
WASTE QUANTITY

<u>WASTE TYPE</u>	<u>AREA</u>	<u>YEARS OF USE</u>	<u>SOURCE AREA</u>
coal tar	100 feet x 310 feet	1930 - 1966*	2 above-ground storage tanks
coal gasification by-products**	unknown	1923-1930	soil

NOTES: * No available file information to indicate prior disposal practices, if any, on this property.

** Coal gasification may have occurred on this property.
(DeLuca 1983; Milikovsky 1989a).

None of the companies that have or are using the property are RCRA notifiers, nor have had NPDES permits (US EPA, 1988; 1989).

ENVIRONMENTAL SETTING

The Koppers property is located in an industrial/commercial area of Portland with a few residences north and east of the property.

Unconsolidated overburden underlying the property consists of well to poorly sorted stratified ice-contact deposits of sand, gravel, and cobbles ranging from 0 to 100 feet in depth. Approximately 0.1 miles to the south of the property are marine and estuarine deposits, which are composed of silt, clay, and fine sand; to the north is till (Prescott, 1976). Depth to groundwater in the vicinity of the Koppers property (less than 1 mile west) was reported to be less than 10 feet from the surface (Robert G. Gerber, Inc., 1986).

Bedrock beneath the property is classified as a member of the Spring Point Formation, which consists of schist or gneiss interpreted to be metavolcanic tuffs and flows of varying composition. The property is located between two faults, the Nonesuch River Fault and the South Portland Fault, located approximately 1.5 miles northwest and 2 miles southeast, respectively. (Hussey, 1971).

Towns that are located within 4 miles of the property include Portland, South Portland, the northern half of Cape Elizabeth, and the southern portion of Falmouth (USGS, 1970a; 1970b; 1978a; 1978b). All of the above towns are serviced by the Portland Water District (PWD), which obtains its water from Sebago Lake, located approximately 16 miles northwest of the property (NUS/FIT, 1989b). Although the PWD supplies water to greater than 99 percent of the population, there may be some private wells within 4 miles of the property. However, there are no private wells in the immediate vicinity; some may be found near the Westbrook border, between 3 and 4 miles from the property (Robinson, K. 1988). The following table summarizes water use in the area.

TABLE 3
WATER USE

<u>TOWN</u>	<u>POPULATION</u>	<u>PERCENT SERVED BY PWDA</u>	<u>POTENTIAL NUMBER OF PRIVATE WELL USERS</u>
Portland	65,000	99.9	65
South Portland	23,000	99.9	23
Cape Elizabeth	8,000	99.9	15 ^B
Falmouth	6,593	98 ^C	0 ^C
TOTALS	102,593		103

NOTES: A - Sebago Lake
B - This number reflects the actual number of private wells
C - This number is the total number of residents served by the PWD; this is the area of Falmouth that is within 4 miles that is serviced by the PWD (i.e. no private wells exist in Falmouth within 4 miles).

(Dresser, 1989; Kurpaska, 1987; Mattuck, 1987a, 1987b, 1987c).

Surface water would either infiltrate the ground or flow into the low area north of the building. There is no outlet from this low area to the north; surface water here would also likely infiltrate into the ground. The Fore River is located approximately 0.2 miles southeast of the property. The Fore River flows approximately 2.1 miles northeast from the property into Casco Bay. Portland Harbor is located at the mouth of the Fore River (USGS, 1978a). All three water bodies are used for shipping, fishing, and recreational boating. Public beaches (vicinity of Jack Jr. High School, northwest; Little Diamond Island, east; and Willard Beach, southeast) are located along the coast or in Casco Bay approximately 3.5 stream miles from the property (DeLorme, 1987; Mattuck, 1987d; USGS, 1978a; 1970a).

This coastal area, including the offshore islands, provide critical habitat for wintering deer, nesting and migrating shorebirds, wading birds, waterfowl, terns, raptors, and fish. In addition, the offshore islands and coast are feeding and roosting areas, seal haul-outs, and nest sites for the Least Tern (*Sterna albifrons*) and the osprey (*Pandion haliaetus*) (Maine Department of Inland Fisheries and Wildlife, 1988).

RESULTS

On May 30, 1990, NUS/FIT conducted an onsite reconnaissance and collected seven soil samples, including a trip blank, a background sample, and a replicate/duplicate sample (Table 4). All samples were analyzed for volatile organic compounds, semi-volatile organic compounds, inorganic elements, and cyanide through the EPA Contract Laboratory Program, except for the trip blank, which was not analyzed for inorganic elements or cyanide.

Volatile organic results are presented in Attachment A, Table 1. Semi-volatile organic results are presented in Attachment A, Table 2. Inorganic and cyanide results are presented in Attachment A, Table 3. Information regarding analytical detection limits may be found in Attachment B, Tables 1-3. Note that sample results qualified by a "J" on the analytical tables are considered approximate because of limitations identified during the quality control review. In addition to the complete analytical tables in Attachment A, a results summary table (Table 5) presents compounds and elements which were identified in the samples and whose concentrations exceed 3 times the background (BKG) sample concentration for that compound or element. When the compound or element of interest was not identified in the background sample, it is listed in the tables as either

TABLE 4**Sample Summary: KOPPERS CO. PORTLAND PLANT**

Samples collected by NUS/FIT on May 30, 1990

Matrix: Soil

<u>Sample Location #</u>	<u>NUS Sample/ Traffic Report #</u>	<u>Remarks</u>	<u>Sample Source</u>
SS-01	23478/AR885 MAP106	Grab 1 foot deep	10 feet from northwest corner of building.
SS-02	23479/AR886 MAP107	Grab 1 foot deep	2 feet from northern side of building. 25 feet from northwest corner of building.
SS-03	23480/AR887 MAP108	Grab 2.5 feet deep	2 feet from northern side of building. 50 feet from northeast end of building.
SS-03D/R	23481/AR888 MAP109	Grab 2.5 feet deep	Duplicate/Replicate, same as SS-03, for quality control.
SS-04	23482/AR889 MAP110	Grab 3 feet deep	3 feet from northern side of building, 10 feet from northeast corner of building.
SS-05	23483/AR890 MAP111	Composite 1 to 2 feet deep	Background for quality control, 30 yards east of building.
SS-06	23484/AR891	Grab	Trip blank for quality control.

Notes: AR denotes Organic Traffic Report #
MAP denotes Inorganic Traffic Report #

TABLE 5

SAMPLE RESULTS SUMMARY TABLE

Samples collected on May 30, 1990

<u>LOCATION</u>	<u>COMPOUND/ ELEMENT</u>	<u>CONCENTRATION</u>	<u>ATTACHMENT/ TABLE</u>	<u>COMMENTS</u>
SS-01	Naphthalene	22 J ppb	A/2	DETECTED
	2-Methylnaphthalene	23 J ppb	A/2	DETECTED
	Acenaphthylene	50 J ppb	A/2	DETECTED
	Fluorene	49 J ppb	A/2	DETECTED
	Phenanthrene	340 J ppb	A/2	7 x BKG
	Anthracene	79 J ppb	A/2	DETECTED
	Fluoranthene	630 J ppb	A/2	8 x BKG
	Pyrene	880 J ppb	A/2	11 x BKG
	Benzo(a)anthracene	410 J ppb	A/2	14 x BKG
	Chrysene	430 J ppb	A/2	8 x BKG
	Benzo(b)fluoranthene	580 J ppb	A/2	7 x BKG
	Benzo(a)pyrene	340 J ppb	A/2	9 x BKG
	Indeno(1,2,3-cd)pyrene	220 J ppb	A/2	DETECTED
	Benzo(g,h,i)perylene	280 J ppb	A/2	DETECTED
SS-02	Naphthalene	500 ppb	A/2	DETECTED
	2-Methylnaphthalene	1,400 ppb	A/2	3 x BKQL
	Acenaphthylene	510 ppb	A/2	DETECTED
	Acenaphthene	820 ppb	A/2	DETECTED
	Dibenzofuran	1,300 ppb	A/2	3 x BKQL
	Fluorene	3,000 ppb	A/2	9 x BKQL
	Phenanthrene	14,000 ppb	A/2	297 x BKG
	Anthracene	2,600 ppb	A/2	6 x BKQL
	Fluoranthene	11,000 ppb	A/2	146 x BKG
	Pyrene	18,000 ppb	A/2	243 x BKG
	Benz(a)anthracene	5,300 ppb	A/2	182 x BKG
	Chrysene	5,500 ppb	A/2	110 x BKG
	bis(2-Ethylhexyl)phthalate	190 J ppb	A/2	7 x BKG
	Di-n-octylphthalate	54 J ppb	A/2	DETECTED
	Benzo(b)fluoranthene	7,300 ppb	A/2	89 x BKG
	Benzo(a)pyrene	3,800 ppb	A/2	105 x BKG
	Indeno(1,2,3-cd)pyrene	1,800 ppb	A/2	4 x BKQL
	Benzo(g,h,i)perylene	1,700 ppb	A/2	4 X BKQL

TABLE 5 - Continued

SS-03	Acenaphthylene	370	J	ppb	A/2	DETECTED
	Anthracene	89	J	ppb	A/2	DETECTED
	Fluoranthene	600		ppb	A/2	8 x BKG
	Pyrene	3,200	J	ppb	A/2	43 x BKG
	Chrysene	800		ppb	A/2	16 x BKG
	Benzo(b)fluorathene	2,000		ppb	A/2	24 x BKG
	Benzo(a)pyrene	1,200		ppb	A/2	33 x BKG
	Indeno(1,2,3-cd)pyrene	520		ppb	A/2	DETECTED
	Benzo(g,h,i)perylene	580		ppb	A/2	DETECTED
SS-03D/R	Phenol	21	J	ppb	A/2	DETECTED
	2-Methylnaphthalene	53	J	ppb	A/2	DETECTED
	Acenaphthylene	310	J	ppb	A/2	DETECTED
	Anthracene	52	J	ppb	A/2	DETECTED
	Fluoranthene	580		ppb	A/2	7 x BKG
	Pyrene	3,000		ppb	A/2	40 x BKG
	Chrysene	760		ppb	A/2	15 x BKG
	Benzo(b)fluoranthene	1,200		ppb	A/2	14 x BKG
	Benzo(a)pyrene	1,200		ppb	A/2	33 x BKG
	Indeno(1,2,3-cd)pyrene	420		ppb	A/2	DETECTED
	Benzo(g,h,i)perylene	510		ppb	A/2	DETECTED
SS-04	Naphthalene	41	J	ppb	A/2	DETECTED
	2-Methylnaphthalene	34	J	ppb	A/2	DETECTED
	Acenaphthylene	110	J	ppb	A/2	DETECTED
	Acenaphthene	37	J	ppb	A/2	DETECTED
	Dibenzofuran	66	J	ppb	A/2	DETECTED
	Fluorene	190	J	ppb	A/2	DETECTED
	Phenanthrene	1,600		ppb	A/2	34 x BKG
	Anthracene	240	J	ppb	A/2	DETECTED
	Fluoranthene	2,100		ppb	A/2	28 x BKG
	Pyrene	2,900		ppb	A/2	39 x BKG
	Benzo(a)anthracene	1,100		ppb	A/2	37 x BKG
	Chrysene	1,200		ppb	A/2	24 x BKG
	Benzo(b)fluoranthene	1,900		ppb	A/2	23 x BKG
	Benzo(a)pyrene	1,100		ppb	A/2	30 x BKG
	Indeno(1,2,3-cd)pyrene	660		ppb	A/2	DETECTED
	Benzo(g,h,i)perylene	710		ppb	A/2	DETECTED

Notes:

ppm = parts per million

ppb = parts per billion

J = quantitation is approximate due to limitations identified during the quality control review

BKG = background sample concentration

BKQL = background sample quantitation limit

Detected = sample detected at less than three times the BKQL.

having a concentration exceeding 3 times the background sample quantitation limit (BKQL) or detection limit (BKDL), or as being detected.

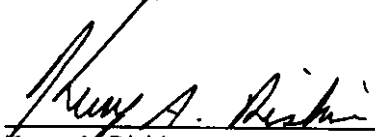
No volatile organic compounds or cyanide were detected in any of the samples. Concentrations of inorganic elements in all of the samples did not exceed the background concentration of those elements. Several semi-volatile organic compounds were detected at all sample locations ranging from 3 times the BKQL (dibenzofuran) to 297 times the background concentration (phenanthrene). The sample collected from location SS-02 contained the most compounds (14) detected at or greater than 3 times the background or BKQL. Concentrations at this location ranged from 54 parts per billion (ppb) (di-n-octylphthalate) to 18,000 ppb (pyrene). Samples collected from the other locations contained lower concentrations of polycyclic aromatic hydrocarbons (PAHs) than those from location SS-02. Most of the compounds that were detected are PAHs. PAHs are common constituents of tar products and combustion processes. The presence of these compounds may be attributed to spillage from the former asphalt storage tanks, the proximity of the railroad bed (less than 10 feet), byproducts of coal gasification, and the urban location of this property.

SUMMARY

The Koppers Co. Portland Plant property has been used for industrial purposes since 1923. From 1923 to 1930, Portland Gas and Light owned this property. In 1930, Koppers Company purchased the property and stored asphalt in two above-ground tanks for use on roads. In 1973, the existing building was constructed and the tanks removed. The building and parking area now occupy most of the lot. NUS/FIT sampling indicated the presence of several polycyclic aromatic hydrocarbons in the soil up to 18,000 parts per billion. No volatile organic compounds or cyanide were detected in the soil samples. Concentrations of inorganic elements did not exceed background concentrations.

Due to the lack of historical information on this property and the detection of polycyclic aromatic hydrocarbons, NUS/FIT recommends that a Listing Site Inspection be conducted.

Submitted By:


Kerry A. Diskin
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Approval: 
Robert Jubach
FIT Office Manager

KAD:aa

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LIST OF ATTACHMENTS

ATTACHMENT A) NUS/FIT SOIL ANALYTICAL DATA

- Table 1: CLP Volatile Organic Analysis: Soil Analytical Results**
- Table 2: CLP Extractable Organic Analysis: Soil Analytical Results**
- Table 3: CLP Inorganic Analysis: Soil Analytical Results**

ATTACHMENT B) NUS/FIT SOIL QUANTITATION AND DETECTION LIMITS

- Table 1: CLP Volatile Organic Analysis: Soil Quantitation Limits**
- Table 2: CLP Extractable Organic Analysis: Soil Quantitation Limits**
- Table 3: CLP Inorganic Analysis: Soil Detection Limits**

ATTACHMENT A
NUS/FIT SOIL ANALYTICAL DATA

- Table 1: CLP Volatile Organic Analysis: Soil Analytical Results**
- Table 2: CLP Extractable Organic Analysis: Soil Analytical Results**
- Table 3: CLP Inorganic Analysis: Soil Analytical Results**

TABLE 1 PAGE 1 OF 1
KOPPERS CO. PORTLAND PT
MAY 30, 1990
CLP VOLATILE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-03R	SS-04	SS-05	SS-06
Sample Number	AR885	AR886	AR887	AR888	AR889	AR890	AR891
Traffic Report Number	23478	23479	23480	23481	23482	23483	23484
Remarks				REPLICATE		BACKGROUND	BLANK
Sampling Date	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90
Analysis Date	06-10-90	06-10-90	06-10-90	06-10-90	06-10-90	06-10-90	06-10-90
VOLATILE ORGANIC COMPOUND							
Chloromethane							
Bromomethane							
Vinyl Chloride							
Chloroethane							
Methylene Chloride							
Acetone							6 J
Carbon Disulfide							
1,1-Dichloroethene							
1,1-Dichloroethane							
1,2-Dichloroethene (Total)							
Chloroform							
1,2-Dichloroethane							
2-Butanone							
1,1,1-Trichloroethane							
Carbon Tetrachloride							
Vinyl Acetate							
Bromodichloromethane							
1,2-Dichloropropane							
cis-1,3-Dichloropropene							
Trichloroethene							
Dibromochloromethane							
1,1,2-Trichloroethane							
Benzene							
trans-1,3-Dichloropropene							
Bromoform							
4-Methyl-2-pentanone							
2-Hexanone							
Tetrachloroethene							
1,1,2,2-Tetrachloroethane							
Toluene							0.7 J
Chlorobenzene							
Ethylbenzene							
Styrene							
Xylene (Total)							
Total VOC Concentration (ug/Kg)							6.7 J

A blank space indicates the compound was not detected.

Sample results are reported on a dry weight basis.

J Quantitation is approximate due to limitation identified during the quality control review.

Sample Quantitation Limits for the compounds listed above are reported in Attachment B Table 1.

TABLE 2 PAGE 1 OF 2
KOPPERS CO. PORTLAND PT

MAY 30, 1990

CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-03D	SS-04	SS-05	SS-06
Sample Number	AR885	AR886	AR887	AR888	AR889	AR890	AR891
Traffic Report Number	23478	23479	23480	23481	23482	23483	23484
Remarks				DUPLICATE		BACKGROUND	BLANK
Sampling Date	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90
Extraction Date	06-07-90	06-07-90	06-07-90	06-07-90	06-07-90	06-07-90	06-07-90
Analysis Date	06-19-90	06-19-90	06-19-90	06-19-90	06-19-90	06-20-90	06-20-90
SEMI-VOLATILE COMPOUND							
Phenol				21 J			
bis (2-Chloroethyl) ether							
2-Chlorophenol							
1,3-Dichlorobenzene							
1,4-Dichlorobenzene							
Benzyl Alcohol							
1,2-Dichlorobenzene							
2-Methylphenol							
bis (2-Chloroisopropyl) ether							
4-Methylphenol							
N-Nitroso-di-n-propylamine							
Hexachloroethane							
Nitrobenzene							
Isophorone							
2-Nitrophenol							
2,4-Dimethylphenol							
Benzoic acid							
bis (2-Chloroethoxy) methane							
2,4-Dichlorophenol							
1,2,4-Trichlorobenzene							
Naphthalene	22 J	500			41 J		
4-Chloroaniline							
Hexachlorobutadiene							
4-Chloro-3-methylphenol							
2-Methylnaphthalene	23 J	1400		53 J	34 J		
Hexachlorocyclopentadiene							
2,4,6-Trichlorophenol							
2,4,5-Trichlorophenol							
2-Chloronaphthalene							
2-Nitroaniline							
Dimethylphthalate							
Acenaphthylene	50 J	510	370 J	310 J	110 J		
2,6-Dinitrotoluene							

TABLE 2 PAGE 2 OF 2
KOPPERS CO. PORTLAND PT
MAY 30, 1990
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-03D	SS-04	SS-05	SS-06
Sample Number	AR885	AR886	AR887	AR888	AR889	AR890	AR891
Traffic Report Number	23478	23479	23480	23481	23482	23483	23484
Remarks				DUPLICATE		BACKGROUND	BLANK
Sampling Date	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90	05-30-90
Extraction Date	06-07-90	06-07-90	06-07-90	06-07-90	06-07-90	06-07-90	06-07-90
Analysis Date	06-19-90	06-19-90	06-19-90	06-19-90	06-19-90	06-20-90	06-20-90
SEMI-VOLATILE COMPOUND							
3-Nitroaniline							
Acenaphthene		820			37 J		
2,4-Dinitrophenol							
4-Nitrophenol							
Dibenzofuran		1300			66 J		
2,4-Dinitrotoluene							
Diethylphthalate							
4-Chlorophenyl-phenylether							
Fluorene	49 J	3000			190 J		
4-Nitroaniline							
4,6-Dinitro-2-methylphenol							
N-Nitrosodiphenylamine							25 J
4-Bromophenyl-phenylether							
Hexachlorobenzene							
Pentachlorophenol							
Phenanthrene	340 J	14000	86 J	48 J	1600	47 J	
Anthracene	79 J	2600	89 J	52 J	240 J		
Di-n-butylphthalate	20 J			61 J		23 J	
Fluoranthene	630	11000	600	580	2100	75 J	
Pyrene	880	18000	3200 J	3000	2900	74 J	
Butylbenzylphthalate							
3,3'-Dichlorobenzidine							
Benzo(a)anthracene	410	5300			1100	29 J	
Chrysene	430	5500	800	760	1200	50 J	
bis(2-Ethylhexyl)phthalate		190 J		39 J		24 J	
Di-n-octyl phthalate		54 J					
Benzo(b)fluoranthene	580	7300	2000	1200	1900	82 J	
Benzo(k)fluoranthene							
Benzo(a)pyrene	340 J	3800	1200	1200	1100	36 J	
Indeno (1,2,3-cd)pyrene	220 J	1800	520	420	660		
Dibenz(a,h)anthracene							
Benzo(g,h,i)perylene	280 J	1700	580	510	710		

A blank space indicates the compound was not detected.

Sample results are reported on a dry weight basis.

J Quantitation is approximate due to limitations identified during the quality control review.

Sample Quantitation Limits for the compounds listed above are reported in Attachment B Table 2.

TABLE 3 PAGE 1 OF 1
KOPPERS CO. PORTLAND PT
MAY 30, 1990
CLP INORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS (mg/Kg)

Sample Location		SS-01	SS-02	SS-03	SS-03D	SS-04	SS-05
Sample Number		23478	23479	23480	23481	23482	23483
Traffic Report Number		MAP106	MAP107	MAP108	MAP109	MAP110	MAP111
Remarks					DUPLICATE		BACKGROUND
INORGANIC ELEMENTS							
Aluminum	P	5150.00 J	8810.00 J	5290.00 J	6060.00 J	7780.00 J	14400.00 J
Antimony	P		R	R	R	R	R
Arsenic	F	15.60 J	9.70 J	12.50 J	16.80 J	11.20 J	12.70 J
Barium	P	17.70	30.60	22.90	27.40	29.80	59.00 J
Beryllium	P						
Cadmium	P						
Calcium	P	651.00	500.00	1040.00	1310.00	675.00	1880.00
Chromium	P	10.40 J	15.10 J	15.70 J	17.00 J	18.10 J	34.60 J
Cobalt	P	5.60 J	7.50 J	6.60 J	7.80 J	6.90 J	11.60 J
Copper	P	9.90 J	12.70 J	9.80 J	9.60 J	13.20 J	18.40 J
Iron	P	6940.00 J	11100.00 J	9550.00 J	10000.00 J	10300.00 J	20600.00 J
Lead	F	9.10	5.20	5.10	4.30	11.30	13.50
Magnesium	P	1780.00	2570.00	2550.00	2580.00	2770.00	6040.00
Manganese	P	205.00 J	201.00 J	158.00 J	155.00 J	196.00 J	317.00 J
Mercury	CV						
Nickel	P		15.10			16.20	27.40
Potassium	P	1800.00	1380.00	964.00	1130.00	1470.00	3380.00
Selenium	F						
Silver	P						
Sodium	P	393.00	259.00	282.00	298.00	238.00	442.00
Thallium	F						
Vanadium	P	9.30	17.40	13.50	14.50	17.50	36.20 J
Zinc	P	28.50 J	32.30 J	22.90 J	26.80 J	32.80 J	47.60 J
Cyanide	C						

Analytical Method

F Furnace AA
P ICP/Flame AA
CV Cold Vapor
C Colorimetric

A blank space indicates the element was not detected.

Sample results are reported on a dry weight basis.

J Quantitation is approximate due to limitations identified during the quality control review.

R Value is rejected.

Sample Detection Limits for the elements listed above are reported in Attachment B Table 3.

ATTACHMENT B

NUS/FIT SOIL QUANTITATION AND DETECTION LIMITS

- Table 1: CLP Volatile Organic Analysis: Soil Quantitation Limits**
- Table 2: CLP Extractable Organic Analysis: Soil Quantitation Limits**
- Table 3: CLP Inorganic Analysis: Soil Detection Limits**

MAY 30, 1990

CLP VOLATILE ORGANIC ANALYSIS

SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-03R	SS-04	SS-05	SS-06
Sample Number	AR885	AR886	AR887	AR888	AR889	AR890	AR891
Traffic Report Number	23478	23479	23480	23481	23482	23483	23484
Remarks				REPLICATE		BACKGROUND	BLANK
VOLATILE ORGANIC COMPOUND							
Chloromethane	12	12	12	12	11	12	11
Bromomethane	12	12	12	12	11	12	11
Vinyl Chloride	12	12	12	12	11	12	11
Chloroethane	12	12	12	12	11	12	11
Methylene Chloride	6	6	6	6	6	6	5
Acetone	12	12	12	12	11	12	11
Carbon Disulfide	6	6	6	6	6	6	5
1,1-Dichloroethene	6	6	6	6	6	6	5
1,1-Dichloroethane	6	6	6	6	6	6	5
1,2-Dichloroethene (Total)	6	6	6	6	6	6	5
Chloroform	6	6	6	6	6	6	5
1,2-Dichloroethane	6	6	6	6	6	6	5
2-Butanone	12	12	12	12	11	12	11
1,1,1-Trichloroethane	6	6	6	6	6	6	5
Carbon Tetrachloride	6	6	6	6	6	6	5
Vinyl Acetate	6	6	6	6	6	6	5
Bromodichloromethane	6	6	6	6	6	6	5
1,2-Dichloropropane	6	6	6	6	6	6	5
cis-1,3-Dichloropropene	6	6	6	6	6	6	5
Trichloroethene	6	6	6	6	6	6	5
Dibromochloromethane	6	6	6	6	6	6	5
1,1,2-Trichloroethane	6	6	6	6	6	6	5
Benzene	6	6	6	6	6	6	5
trans-1,3-Dichloropropene	6	6	6	6	6	6	5
Bromoform	6	6	6	6	6	6	5
4-Methyl-2-pentanone	12	12	12	12	11	12	11
2-Hexanone	12	12	12	12	11	12	11
Tetrachloroethene	6	6	6	6	6	6	5
1,1,2,2-Tetrachloroethane	6	6	6	6	6	6	5
Toluene	6	6	6	6	6	6	5
Chlorobenzene	6	6	6	6	6	6	5
Ethylbenzene	6	6	6	6	6	6	5
Styrene	6	6	6	6	6	6	5
Xylene (Total)	6	6	6	6	6	6	5

Sample Quantitation Limits are reported on a dry weight basis.

UJ Sample Quantitation Limit is approximate due to limitations identified during the quality control review.

MAY 30, 1990

CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-03D	SS-04	SS-05	SS-06
Sample Number	AR885	AR886	AR887	AR888	AR889	AR890	AR891
Traffic Report Number	23478	23479	23480	23481	23482	23483	23484
Remarks				DUPLICATE		BACKGROUND	BLANK
SEMI-VOLATILE COMPOUND							
Phenol	380	1500	380	380	370	380	330
bis (2-Chloroethyl) ether	380	1500	380	380	370	380	330
2-Chlorophenol	380	1500	380	380	370	380	330
1,3-Dichlorobenzene	380	1500	380	380	370	380	330
1,4-Dichlorobenzene	380	1500	380	380	370	380	330
Benzyl Alcohol	380	1500	380	380	370	380	330
1,2-Dichlorobenzene	380	1500	380	380	370	380	330
2-Methylphenol	380	1500	380	380	370	380	330
bis (2-Chloroisopropyl) ether	380	1500	380	380	370	380	330
4-Methylphenol	380	1500	380	380	370	380	330
N-Nitroso-di-n-propylamine	380	1500	380	380	370	380	330
Hexachloroethane	380	1500	380	380	370	380	330
Nitrobenzene	380	1500	380	380	370	380	330
Isophorone	380	1500	380	380	370	380	330
2-Nitrophenol	380	1500	380	380	370	380	330
2,4-Dimethylphenol	380	1500	380	380	370	380	330
Benzoic acid	1900	7400	1900	1900	1800	1900	1600
bis (2-Chloroethoxy) methane	380	1500	380	380	370	380	330
2,4-Dichlorophenol	380	1500	380	380	370	380	330
1,2,4-Trichlorobenzene	380	1500	380	380	370	380	330
Naphthalene	380	1500	380	380	370	380	330
4-Chloroaniline	380	1500	380	380	370	380	330
Hexachlorobutadiene	380	1500	380	380	370	380	330
4-Chloro-3-methylphenol	380	1500	380	380	370	380	330
2-Methylnaphthalene	380	1500	380	380	370	380	330
Hexachlorocyclopentadiene	380	1500	380	380	370	380	330
2,4,6-Trichlorophenol	380	1500	380	380	370	380	330
2,4,5-Trichlorophenol	1900	7400	1900	1900	1800	1900	1600
2-Chloronaphthalene	380	1500	380	380	370	380	330
2-Nitroaniline	1900	7400	1900	1900	1800	1900	1600
Dimethylphthalate	380	1500	380	380	370	380	330
Acenaphthylene	380	1500	380	380	370	380	330
2,6-Dinitrotoluene	380	1500	380	380	370	380	330

KOPPERS CO. PORTLAND PT

MAY 30, 1990

CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-02	SS-03	SS-03D	SS-04	SS-05	SS-06
Sample Number	AR885	AR886	AR887	AR888	AR889	AR890	AR891
Traffic Report Number	23478	23479	23480	23481	23482	23483	23484
Remarks				DUPLICATE		BACKGROUND	BLANK
SEMI-VOLATILE COMPOUND							
3-Nitroaniline	1900	7400	1900	1900	1800	1900	1600
Acenaphthene	380	850	380	380	370	380	330
2,4-Dinitrophenol	1900	7400	1900	1900	1800	1900	1600
4-Nitrophenol	1900	7400	1900	1900	1800	1900	1600
Dibenzofuran	380	850	380	380	370	380	330
2,4-Dinitrotoluene	380	850	380	380	370	380	330
Diethylphthalate	380	850	380	380	370	380	330
4-Chlorophenyl-phenylether	380	850	380	380	370	380	330
Fluorene	380	850	380	380	370	380	330
4-Nitroaniline	1900	7400	1900	1900	1800	1900	1600
4,6-Dinitro-2-methylphenol	1900	7400	1900	1900	1800	1900	1600
N-Nitrosodiphenylamine	380	850	380	380	370	380	330
4-Bromophenyl-phenylether	380	850	380	380	370	380	330
Hexachlorobenzene	380	850	380	380	370	380	330
Pentachlorophenol	1900	850	1900	1900	1800	1900	1600
Phenanthrene	380	850	380	380	370	380	1500
Anthracene	380	850	380	380	370	380	330
Di-n-butylphthalate	380	850	380	380	370	380	330
Fluoranthene	380	850	380	380	370	380	1500
Pyrene	380	850	380	380	370	380	1500
Butylbenzylphthalate	380	850	380	380	370	380	330
3,3'-Dichlorobenzidine	770	3100	770	770	730	770	660
Benzo(a)anthracene	380	850	380	380	370	380	330
Chrysene	380	850	380	380	370	380	330
bis(2-Ethylhexyl)phthalate	380	850	380	380	370	380	330
Di-n-octyl phthalate	380	850	380	380	370	380	330
Benzo(b)fluoranthene	380	850	380	380	370	380	1500
Benzo(k)fluoranthene	380	850 UJ	380	380	370	380	330
Benzo(a)pyrene	380	850	380	380	370	380	330
Indeno(1,2,3-cd)pyrene	380	850	380	380	370	380	330
Dibenz(a,h)anthracene	380	850 UJ	380	380	370	380	330
Benzo(g,h,i)perylene	380	850	380	380	370	380	330

Sample Quantitation Limits are reported on a dry weight basis.

TABLE 3 PAGE 1 OF 1
KOPPERS CO. PORTLAND PT
MAY 30, 1990
CLP INORGANIC ANALYSIS
SOIL SAMPLE DETECTION LIMITS (mg/Kg)

Sample Location		SS-01	SS-02	SS-03	SS-03D	SS-04	SS-05
Sample Number		23478	23479	23480	23481	23482	23483
Traffic Report Number		MAP106	MAP107	MAP108	MAP109	MAP110	MAP111
Remarks					DUPLICATE		BACKGROUND
Percent Solids		85.6%	80.0%	80.3%	82.4%	86.6%	84.4%
INORGANIC ELEMENTS							
Aluminum	P	9.11	10.26	10.96	10.77	11.87	12.78
Antimony	P	10.30	R	R	R	R	R
Arsenic	F	0.22	0.20	0.20	0.18	0.22	0.23
Barium	P	0.50	0.56	0.60	0.59	0.65	0.70
Beryllium	P	0.50	1.10	1.00	.98	1.10	1.40
Cadmium	P	0.50	0.93	0.60	1.20	1.30	0.93
Calcium	P	1.66	1.87	1.99	1.96	2.16	2.32
Chromium	P	0.83	0.93	1.00	0.98	1.08	1.16
Cobalt	P	1.16	1.31	1.39	1.37	1.51	1.63
Copper	P	0.50	0.56	9.80	9.60	0.65	0.70
Iron	P	5.14	5.78	6.18	6.07	6.69	7.20
Lead	P	0.17	0.19	0.20	0.20	0.22	0.23
Magnesium	P	8.45	9.51	10.16	9.98	11.01	11.85
Manganese	P	1.16	1.31	1.39	1.37	1.51	1.63
Mercury	CV	0.11	0.10	0.10	0.10	0.10	0.09
Nickel	P	10.40	2.24	13.70	13.70	2.59	2.79
Potassium	P	7.29	8.21	8.77	8.61	9.50	10.22
Selenium	F	0.22 UJ	0.19 UJ	0.20 UJ	0.18 UJ	0.22 UJ	0.23 UJ
Silver	P	0.66 UJ	0.75 UJ	0.80 UJ	0.78 UJ	0.86 UJ	0.92 UJ
Sodium	P	8.62	9.70	10.36	10.18	11.22	12.08
Thallium	F	0.22	0.19 UJ	0.20 UJ	0.18 UJ	0.22 UJ	0.23 UJ
Vanadium	P	0.83	0.93	1.00	0.98	1.08	1.16
Zinc	P	0.17	0.19	0.20	0.20	0.22	0.23
Cyanide	C	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ	0.60 UJ

Analytical Method

F Furnace AA

P ICP/Flame AA

CV Cold Vapor

C Colorimetric

NOTE: Sample Detection Limits are calculated on a dry weight basis.

UJ The detection limit is approximated due to limitations identified during the quality control review.

R Value is rejected.

Site Name: Koppers Company Portland Plant
 CERCLIS No.: MCD980521744
 TDD No.: F1-9001-15
 Reference No.: #375ME5078

NPL ELIGIBILITY CHECKLIST

	YES	NO	COMMENTS
Are the wastes onsite considered hazardous as defined in CERCLA?	<u>X</u>	<u> </u>	<u> </u>
*Sites covered by other authorities:			
Are the hazardous materials at the site solely petroleum products (gasoline, oil, natural gas)?	<u> </u>	<u>X</u>	<u> </u>
Is the contamination at the site caused solely by pesticides that were applied using an accepted practice?	<u> </u>	<u>X</u>	<u> </u>
If the release is into public or private drinking water systems, is it due to deterioration of the system through ordinary use?	<u> </u>	<u>X</u>	<u> </u>
Is the release from products which are part of the structure, and results in exposure within residential, business, or community structures?	<u> </u>	<u>X</u>	<u> </u>
Did the release result in exposure to people solely within a work place?	<u> </u>	<u>X</u>	<u> </u>
Does the facility have an Underground Injection Control permit under the Safe Drinking Water Act?	<u> </u>	<u>X</u>	<u> </u>
Is the release the result of the normal application of fertilizer?	<u> </u>	<u>X</u>	<u> </u>
Does the release involve naturally occurring substances in their unaltered form?	<u> </u>	<u>X</u>	<u> </u>
Does the contamination at the site consist solely of radioactive materials generated by Department of Energy/Atomic Energy Commission activities?	<u> </u>	<u>X</u>	<u> </u>
Is the contamination at the site caused solely by coal mining operations?	<u> </u>	<u>X</u>	<u> </u>
Does the facility have a permit from the EPA or the US Army Corps of Engineers (under the Marine Protection, Research, and Sanctuaries Act) to dispose of dredged materials in ocean waters?	<u> </u>	<u>X</u>	<u> </u>

Site Name: Hoffus Company Portland Plant
 CERCLIS No.: MED 98057-1244
 TDD No.: FI-9001-15
 Reference No.: 3375ME SD IB

	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
*Other issues to site definition:			
Is the site defined solely as a contaminated well field?	_____	_____X_____	_____
Is the site currently owned or operated by a federal agency, or has it been in the past?	_____	_____X_____	_____
Is the site a municipal landfill?	_____	_____X_____	_____
-- Check if there is documentation of disposal of industrial waste.	_____	_____	_____
Does the waste consist of a "special waste" such as fly ash?	_____	_____X_____	_____
-- Check if there is documentation of a hazardous component to the waste.	_____	_____	_____
Does the facility have an NPDES permit?	_____	_____X_____	_____
-- Check if the facility has a history of permit violations.	_____	_____	_____
Is the facility subject to ambient air quality standards under the Clean Air Act?	_____	_____X_____	_____
Does the facility have a permit under the Clean Air Act?	_____	_____X_____	_____
*RCRA Status			
Has the facility notified as a RCRA generator?	_____	_____X_____	_____
-- The facility is a large quantity generator.	_____	_____	_____
-- The facility is a small quantity generator.	_____	_____	_____
Has the facility ever had RCRA interim status or a RCRA permit?	_____	_____	_____
If yes, check any that apply:			
-- The facility is a "non-notifier" or "protective filer" (identified as such by EPA or the state).	_____	_____	_____

Site Name: Koppers Company Portland Plant
CERCLIS No.: MED980 744
TDD No.: FI-9001-15
Reference No.: 3375ME5018

***RCRA Status (continued)**

- The owner of the facility is bankrupt, or the owner has filed for protection under bankruptcy laws (if known). _____
- A RCRA compliance order or notice of violation has been issued for the facility at some time. _____

The order or notice concerned:

- conditions that posed a hazard (i.e., a release of contamination to the environment) OR _____
- administrative violations (i.e., record-keeping or financial requirements). _____
- Some RCRA enforcement action is currently pending at the facility. _____
- A RCRA permit has been denied or interim status has been revoked for the facility. _____

The permit or interim status was revoked:

- because of conditions at the facility that posed a hazard OR _____
- because the facility failed to meet an administrative requirement (i.e., failed to file an acceptable Part B permit application). _____
- A closure plan has been requested or submitted for the facility under RCRA. _____
- A closure plan has been approved for the facility under RCRA. _____
- The facility is closed and currently monitoring under RCRA regulations. _____

CERCLIS DATABASE FORM

DATE: 12/26/90SITE NAME: Koppers Company Portland PlantCERCLIS No. ME0980521744TDD No. F1-9001-15PROJECT MANAGER: Kerry DiskinDIRECTIONS TO SITE: 95 north to 295 east, over Veterans Memorial Bridge
onto Commercial st

ELEMENT	CERCLIS CODE (No. of positions)	DESCRIPTION	ENTRY
I. FOR ALL PROJECTS			
State	C2(2)	Postal code	<u>ME</u>
Site ID (if available)	C101(12)	Dun & Bradstreet or GSA	
Site Name	C104(40)		<u>Koppers Company</u> <u>Portland Plant</u>
Street Address	C110(25)		<u>29-37 West Commercial st</u>
City	C111(25)		<u>Portland</u>
County	*TBD		<u>Cumberland</u>
Ownership	C136(2)	FF = Federally owned ST = State owned CO = County owned DI = District owned IL = Indian lands MI = Mixed ownership UN = Unknown *TBD1 = Municipally owned *TBD2 = Privately owned OH = Other	<u>TBD2</u>
Years of operation	*TBD	<u>1925 to present</u>	<u>67</u>
FMS Number (if assigned)	C315(4)		
Coordinates	*TBD	Latitude	<u>43°40'30" N</u>
		Longitude	<u>70°17'30" W</u>

ELEMENT CERCLIS CODE
(No. of positions)

DESCRIPTION

ENTRY

Recommendation of Most Recent
Project at Site C2103(1)

For PAs:

H = High = SSI Required
M = Med. = SSI Recommended
N = NFRAP = No Further Remedial Action
Planned

For SSIs:

R = Recommended for an LSI
D = Deferred to another authority
N = NFRAP = No Further Remedial
Action Planned

For LSIs:

G = Recommended for an HRS Scoring
N = NFRAP = No Further Remedial
Action Planned

Note

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Abbreviated Comments

Reasons for
Ineligibility (for
Sites Determined
Ineligible under
CERCLA)

*TBD

*TBD1 = Petroleum contamination only
*TBD2 = Active RCRA facility
*TBD3 = Properly applied pesticide
*TBD4 = Nuclear/radioactive waste
*TBD5 = All other reasons

Agency Responsible
for Work at Site

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F = EPA, Fund financed
S = State, Fund financed
SN = State, no Fund financing
FF = Federal facility
*TBD = Responsible Party

F

ELEMENT	CERCLIS CODE (No. of positions)	DESCRIPTION	ENTRY
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II. ONLY FOR SITE WITH HRS

Type of
Facility of
Source

C137(1)

B = Chemical Plant
 C = City Contamination
 L = Landfill
 M = Manufacturing Plant
 N = Military Facility
 F = Other Federal Facility
 T = mines/tailings
 P = Lagoons
 A = Abandoned/Midnight dumping

If unknown,
Type of Waste
Present

R = Radioactive Waste
 J = Inorganic Waste
 *TBD = Organic Waste
 I = Other Industrial Waste
 D = Dioxin

If unknown,
Type of Receptor
Affected

V = Waterways/river
 H = Housing Area
 W = Drinking Water Wells
 *TBD = Ecological Receptors
 O = Other

Abstract

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Site Description
